



*Zootaxa* 2260: 1–16 (2009)

[www.mapress.com/zootaxa/](http://www.mapress.com/zootaxa/)

Copyright © 2009 · Magnolia Press

ISSN 1175-5326 (print edition)

**ZOOTAXA**

ISSN 1175-5334 (online edition)

# ZOOTAXA

2260

## Benthic Amphipoda (Crustacea: Peracarida) of the Great Barrier Reef

J.K. LOWRY & A.A. MYERS (EDS)

<sup>1</sup>*Crustacea Section, Australian Museum, 6 College St., Sydney 2010, Australia*

*(jim.lowry@austmus.gov.au)*

<sup>2</sup>*Department of Zoology, Ecology and Plant Science, National University of Ireland, Cork, Ireland*

*(bavayia@googlemail.com)*



Australian Government

Department of the Environment,  
Water, Heritage and the Arts



Magnolia Press  
Auckland, New Zealand

---

J.K. LOWRY & A.A. MYERS (EDS)  
**Benthic Amphipoda (Crustacea: Peracarida) of the Great Barrier Reef**  
(*Zootaxa* 2260)

930 pp.; 30 cm.

8 Oct. 2009

ISBN 978-1-86977-411-0 (hardback)

ISBN 978-1-86977-412-7 (Online edition)

FIRST PUBLISHED IN 2009 BY

Magnolia Press

P.O. Box 41-383

Auckland 1346

New Zealand

e-mail: [zootaxa@mapress.com](mailto:zootaxa@mapress.com)

<http://www.mapress.com/zootaxa/>

© 2009 Magnolia Press

All rights reserved.

No part of this publication may be reproduced, stored, transmitted or disseminated, in any form, or by any means, without prior written permission from the publisher, to whom all requests to reproduce copyright material should be directed in writing.

This authorization does not extend to any other kind of copying, by any means, in any form, and for any purpose other than private research use.

ISSN 1175-5326 (Print edition)

ISSN 1175-5334 (Online edition)

# Benthic Amphipoda (Crustacea: Peracarida) of the Great Barrier Reef

J.K. LOWRY & A.A. MYERS

<sup>1</sup>*Crustacea Section, Australian Museum, 6 College St., Sydney 2010, Australia.  
(jim.lowry@austmus.gov.au)*

<sup>2</sup>*Department of Zoology, Ecology and Plant Science, National University of Ireland, Cork, Ireland.  
(bavayia@googlemail.com)*

## Table of Contents

Foreword. By J.K. Lowry & A.A. Myers .....	17
Introduction.....	17
Lizard Island Workshop .....	18
The Florida Workshop.....	18
The Amphipods of the GBR.....	19
Habitats .....	19
Material and methods .....	21
Acknowledgements.....	21
References.....	22
Colour Plates of Selected GBR Amphipoda.....	33
Checklist of the Amphipoda of Tropical Australia.....	39
Station List.....	45
The Biogeography of Indo-West Pacific Tropical Amphipods with particular reference to Australia. By A.A. Myers & J.K. Lowry .....	109
Abstract.....	109
Introduction.....	109
World distribution patterns of the Amphipoda.....	109
Palaeobiogeography of the Amphipoda.....	118
The formation of the Australian amphipod fauna.....	122
Parsimony Analysis of endemism of Indo-Pacific amphipods .....	123
Discussion.....	124
References.....	125
Amaryllididae. By J.K. Lowry & H.E. Stoddart.....	128
Abstract.....	128
Introduction.....	128
Material and Methods .....	128
<i>Bamarooka</i> Lowry & Stoddart, 2002 .....	128
<i>Bamarooka tropicalis</i> Lowry & Stoddart, 2002 .....	128
References.....	131
Ampeliscidae. By Rachael A. King .....	132
Abstract.....	132
Introduction.....	132
Material and Methods .....	132
<i>Ampelisca</i> Krøyer, 1842 .....	133
<i>Ampelisca dimboola</i> Lowry & Poore, 1985 .....	133
<i>Ampelisca dingaal</i> <b>sp. nov.</b> .....	135
<i>Ampelisca jiigurru</i> <b>sp. nov.</b> .....	138
References.....	142
Amphilochidae. By B.A.R. Azman .....	143
Abstract.....	143

Introduction.....	143
Material and Methods .....	144
<i>Amphilochus</i> Bate, 1862 .....	144
<i>Amphilochus justi</i> <b>sp. nov.</b> .....	144
<i>Amphilochus lacertus</i> <b>sp. nov.</b> .....	147
References.....	151
Ampithoidae. By L.E. Hughes & J.K. Lowry .....	153
Abstract.....	153
Introduction.....	153
Material and Methods .....	153
<i>Ampithoe</i> Leach, 1814 .....	154
<i>Ampithoe cookana</i> Peart, 2007 .....	154
<i>Ampithoe katae</i> Peart, 2007 .....	157
<i>Ampithoe kava</i> (Myers, 1985).....	161
<i>Ampithoe meganae</i> Peart, 2007 .....	164
<i>Ampithoe waialua</i> J.L. Barnard, 1970 .....	167
<i>Cymadusa</i> Savigny, 1816 .....	171
<i>Cymadusa alyxis</i> Hughes & Lowry <b>sp. nov.</b> .....	171
<i>Cymadusa cavimana</i> (Sivaprakasam, 1971) .....	174
<i>Cymadusa heronensis</i> Peart, 2007 .....	178
<i>Cymadusa hoeyae</i> Hughes & Lowry <b>sp. nov.</b> .....	181
<i>Cymadusa imbroglio</i> Rabindranath, 1972 .....	184
<i>Cymadusa khbarnardi</i> Hughes & Lowry <b>sp. nov.</b> .....	188
<i>Cymadusa mariabyrneae</i> Hughes & Lowry <b>sp. nov.</b> .....	191
<i>Cymadusa smilodonta</i> Hughes & Lowry <b>sp. nov.</b> .....	194
<i>Cymadusa tattersalli</i> Peart, 2004.....	198
<i>Cymadusa thagaay</i> Peart, 2007 .....	201
<i>Cymadusa wistari</i> Peart, 2007 .....	204
<i>Paragrubia</i> Chevreux, 1901 .....	207
<i>Paragrubia edgari</i> Peart <b>sp. nov.</b> .....	207
<i>Plumithoe</i> Barnard & Karaman, 1991 .....	211
<i>Plumithoe quadrimana</i> (Haswell, 1879).....	211
<i>Sunamphitoe</i> Bate, 1857 .....	214
<i>Sunamphitoe fantome</i> Peart <b>sp. nov.</b> .....	214
References.....	217
Aoridae. By Alan A. Myers .....	220
Abstract.....	220
Introduction.....	220
Material and Methods .....	220
<i>Aoroides</i> Walker, 1898 .....	221
<i>Aoroides palfreyensis</i> <b>sp. nov.</b> .....	221
<i>Aoroides parvus</i> <b>sp. nov.</b> .....	223
<i>Autonoe</i> Bruzelius, 1859.....	226
<i>Autonoe seurati</i> (Chevreux, 1907) <b>nov. comb.</b> .....	226
<i>Bemlos</i> Shoemaker, 1925.....	228
<i>Bemlos aequimanus</i> (Schellenberg, 1938).....	229
<i>Bemlos australis</i> (Haswell, 1879).....	231
<i>Bemlos bidens</i> Myers, 1988 .....	234
<i>Bemlos clypeatus</i> Krapp-Schickel & Myers, 2006.....	237
<i>Bemlos ephippium</i> Myers, 1988 .....	239
<i>Bemlos gladius</i> <b>sp. nov.</b> .....	242

<i>Bemlos mollis</i> Myers, 1988.....	245
<i>Bemlos triangulum</i> Myers, 1988.....	247
<i>Bemlos tridentatus</i> Myers, 1988.....	250
<i>Bemlos tui</i> (Myers, 1985) .....	253
<i>Bemlos waipio</i> (J.L. Barnard, 1970) .....	255
<i>Globosolembos</i> Myers, 1985 .....	258
<i>Globosolembos excavatus</i> (Myers, 1975).....	258
<i>Globosolembos longispinosus</i> Ren, 2006.....	260
<i>Globosolembos ovatus</i> Myers, 1985.....	263
<i>Globosolembos springthorpei</i> <b>sp. nov.</b> ....	265
<i>Globosolembos varanus</i> <b>sp. nov.</b> .....	268
<i>Grandidierella</i> Coutière, 1904 .....	271
<i>Grandidierella bonnieroides</i> Stephensen, 1947 .....	271
<i>Grandidierella rhizophorae</i> <b>sp. nov.</b> .....	274
References.....	276
Bogidiellidae. By Charles Oliver Coleman .....	279
Abstract.....	279
Introduction.....	279
Material and Methods .....	279
<i>Xystriogidiella</i> Stock, 1984 .....	279
<i>Xystriogidiella juliani</i> <b>sp. nov.</b> .....	279
<i>Xystriogidiella capricornea</i> Stock, 1984.....	282
References.....	284
Bolttsiidae. By B.A.R. Azman & J.K. Lowry .....	285
Abstract.....	285
Introduction.....	285
Material and Methods .....	285
<i>Bolttsia</i> Griffiths, 1976 .....	286
<i>Bolttsia myersi</i> <b>sp. nov.</b> .....	286
References.....	289
Caprellidae. By José M. Guerra-García & J.K. Lowry .....	290
Abstract.....	290
Introduction.....	290
Material and Methods .....	290
Caprellinae	
<i>Aciconula</i> Mayer, 1903.....	291
<i>Aciconula australiensis</i> Guerra-García, 2004.....	291
<i>Caprella</i> Lamarck, 1801 .....	293
<i>Caprella penantis</i> Leach, 1814.....	293
<i>Hemiaegina</i> Mayer, 1890 .....	295
<i>Hemiagina minuta</i> Mayer, 1890.....	295
<i>Metaprotella</i> Mayer, 1890 .....	297
<i>Metaprotella sandalensis</i> Mayer, 1898 .....	297
<i>Orthoprotella</i> Mayer, 1903.....	299
<i>Orthoprotella australis</i> (Haswell, 1880) .....	299
<i>Orthoprotella pearcei</i> Guerra-García, 2006 .....	301
<i>Orthoprotella</i> sp. ....	304
<i>Paraprotella</i> Mayer, 1890 .....	305
<i>Paraprotella</i> sp. ....	305
<i>Protella</i> Dana, 1852.....	307
<i>Protella similis</i> Mayer, 1903 .....	307

<i>Pseudaeginella</i> Mayer, 1890 .....	309
<i>Pseudaeginella biscayensis</i> (McCain, 1968) .....	309
Phtisicinae	
<i>Jigurru</i> Guerra-García, 2006 .....	311
<i>Jigurru vailhoggetti</i> Guerra-García, 2006 .....	311
<i>Metaproto</i> Mayer, 1903 .....	312
<i>Metaproto novaehollandiae</i> (Haswell, 1880) .....	312
<i>Perotripus</i> Doughty & Steinberg, 1953 .....	315
<i>Perotripus keablei</i> Guerra-García, 2006 .....	315
<i>Pseudoprellicana</i> Guerra-García, 2006 .....	317
<i>Pseudoprellicana johnsoni</i> Guerra-García, 2006 .....	317
<i>Pseudoproto</i> Mayer, 1903 .....	319
<i>Pseudoproto fallax</i> Mayer, 1903 .....	319
<i>Quadrisegmentum</i> Hirayama, 1988 .....	321
<i>Quadrisegmentum lowryi</i> Guerra-García, 2006 .....	321
<i>Quadrisegmentum triangulum</i> Hirayama, 1988 .....	323
References .....	325
Ceinidae. By Charles Oliver Coleman .....	328
Abstract .....	328
Introduction .....	328
Material and Methods .....	328
<i>Ceina</i> Della Valle, 1893 .....	328
<i>Ceina gerlachae</i> <b>sp. nov.</b> .....	328
References .....	332
Cheirocratidae. By Charles Oliver Coleman & James K. Lowry .....	333
Abstract .....	333
Introduction .....	333
Material and Methods .....	333
<i>Prosocratus</i> Barnard & Drummond, 1982 .....	334
<i>Prosocratus carolinae</i> <b>sp. nov.</b> .....	334
References .....	337
Cheluridae. By Charles Oliver Coleman & Adina Renz .....	339
Abstract .....	339
Introduction .....	339
Material and Methods .....	339
<i>Tropichelura</i> J.L. Barnard, 1959 .....	340
<i>Tropichelura insulae</i> (Calman, 1910) .....	340
References .....	343
Chevaliidae. By Alan A. Myers .....	344
Abstract .....	344
Introduction .....	344
Material and Methods .....	344
<i>Chevalia</i> Walker, 1904 .....	344
<i>Chevalia tenuis</i> <b>sp. nov.</b> .....	344
References .....	347
Colomastigidae. By Sara E. LeCroy .....	348
Abstract .....	348
Introduction .....	348
Material and Methods .....	349
<i>Colomastix</i> Grube, 1861 .....	349
<i>Colomastix dentipalma</i> <b>sp. nov.</b> .....	349

<i>Colomastix japonica</i> Bulychева, 1955 .....	352
<i>Colomastix lunililo</i> J.L. Barnard, 1970.....	356
<i>Colomastix plumosa</i> Ledoyer, 1979 .....	360
<i>Colomastix processa</i> <b>sp. nov.</b> ....	363
<i>Colomastix thomasi</i> <b>sp. nov.</b> .....	367
References.....	371
Corophiidae. By Alan A. Myers .....	373
Abstract.....	373
Introduction.....	373
Material and Methods .....	373
Corophiinae	
<i>Paracorophium</i> Stebbing, 1899 .....	373
<i>Paracorophium nana</i> <b>sp. nov.</b> .....	373
Protomedeiinae	
<i>Pumiliophotis</i> <b>gen. nov.</b> .....	376
<i>Pumiliophotis queenslandicus</i> <b>sp. nov.</b> .....	376
References.....	379
Cyproideidae. By B.A.R. Azman .....	380
Abstract.....	380
Introduction.....	380
Material and Methods .....	380
<i>Cyproidea</i> Haswell, 1879 .....	381
<i>Cyproidea cobia</i> <b>sp. nov.</b> .....	381
<i>Gbroidea</i> Lowry & Azman, 2008.....	385
<i>Gbroidea dingaalana</i> Lowry & Azman, 2008 .....	385
<i>Narapheonoides</i> J.L. Barnard, 1972 .....	388
<i>Narapheonoides lowryi</i> <b>sp. nov.</b> .....	388
References.....	391
Dexaminidae. By Alan A. Myers & Sara E. LeCroy .....	393
Abstract.....	393
Introduction.....	393
Material and Methods .....	394
<i>Dexaminoculus</i> Lowry, 1981 .....	394
<i>Dexaminoculus grobbeni</i> (Spandl, 1923) .....	394
<i>Guernea</i> Chevreux, 1887 .....	397
<i>Guernea ipilya</i> Thomas & Barnard, 1991 .....	397
<i>Guernea yamminye</i> Thomas & Barnard, 1991 .....	400
<i>Paradexamine</i> Stebbing, 1899 .....	403
<i>Paradexamine aequiserrata</i> <b>sp. nov.</b> .....	403
<i>Paradexamine exilis</i> <b>sp. nov.</b> .....	406
<i>Paradexamine levitelson</i> <b>sp. nov.</b> .....	408
<i>Paradexamine massa</i> <b>sp. nov.</b> .....	411
<i>Paradexamine micronesica</i> Ledoyer, 1979 .....	413
<i>Paradexamine quadratus</i> <b>sp. nov.</b> .....	415
<i>Paradexamine saxeta</i> <b>sp. nov.</b> .....	418
<i>Polycheria</i> Haswell, 1879 .....	420
<i>Polycheria goanna</i> <b>sp. nov.</b> .....	420
References.....	423
Eusiridae. By Charles Oliver Coleman .....	425
Abstract.....	425
Introduction.....	425

Material and Methods .....	425
<i>Tethygeneia</i> J.L. Barnard, 1972 .....	425
<i>Tethygeneia</i> aff. <i>pacifica</i> (Schellenberg, 1938) .....	425
References .....	429
Exoedicerotidae. By L.E. Hughes .....	430
Abstract .....	430
Introduction .....	430
Material and Methods .....	430
<i>Parhalimедon</i> Chevreux, 1906 .....	431
<i>Parhalimедon kychursti</i> <b>sp. nov.</b> .....	431
References .....	433
Hadziidae. By R.T. Springthorpe & J.K. Lowry .....	434
Abstract .....	434
Introduction .....	434
Material and Methods .....	434
<i>Dulzura</i> J.L. Barnard, 1969 .....	434
<i>Dulzura taylorae</i> <b>sp. nov.</b> .....	435
References .....	439
Hyalidae. By Cristiana S. Serejo & Daniela J. Sittrop .....	440
Abstract .....	440
Introduction .....	440
Material and Methods .....	440
Hyacheliinae .....	
<i>Hyachelia</i> J.L. Barnard, 1967 .....	441
<i>Hyachelia lowryi</i> <b>sp. nov.</b> .....	441
Hyalinae Bulychеva, 1957 .....	444
<i>Lelehua</i> J.L. Barnard, 1970 .....	444
<i>Lelehua myersi</i> <b>sp. nov.</b> .....	444
<i>Parhyale</i> Stebbing, 1897 .....	447
<i>Parhyale hawaiiensis</i> (Dana, 1853) .....	447
References .....	451
Iciliidae. By J.K. Lowry & L.E. Hughes .....	453
Abstract .....	453
Introduction .....	453
Material and Methods .....	453
<i>Icilius</i> Dana, 1849 .....	453
<i>Icilius caledoniana</i> Watson, Lowry & Steinberg, 2004 .....	453
References .....	456
Iphimediidae. By Charles Oliver Coleman .....	458
Abstract .....	458
Introduction .....	458
Material and Methods .....	458
<i>Iphimedia</i> Rathke, 1843 .....	459
<i>Iphimedia schminkei</i> <b>sp. nov.</b> .....	459
References .....	462
Ischyroceridae. By Jean Just .....	463
Abstract .....	463
Introduction .....	463
Material and Methods .....	463
Ischyrocerinae .....	
<i>Coxischyrocerus</i> <b>gen. nov.</b> .....	464

<i>Coxischyrocerus rhombocoxus</i> <b>sp. nov.</b> .....	464
<i>Tropischyrocerus</i> <b>gen. nov.</b> .....	466
<i>Tropischyrocerus pugilis</i> <b>sp. nov.</b> .....	466
Siphonoecetinae .....	
<i>Ambicholestes</i> Just, 1998 .....	469
<i>Ambicholestes</i> ( <i>Ambicholestes</i> ) <i>magellani</i> (Just, 1984) .....	469
<i>Cerapus</i> Say, 1817 .....	470
<i>Cerapus nudus</i> <b>sp. nov.</b> .....	470
<i>Cerapus volucola</i> Lowry & Berents, 2005 .....	473
<i>Erichthonius</i> Milne Edwards, 1830 .....	475
<i>Erichthonius parabrasiliensis</i> <b>sp. nov.</b> .....	475
<i>Erichthonius pugnax</i> Dana, 1852 .....	478
<i>Erichthonius tropicalis</i> <b>sp. nov.</b> .....	481
<i>Erichthonius</i> sp. ....	484
References .....	486
Kamakidae. By Alan A. Myers .....	487
Abstract .....	487
Introduction .....	487
Material and Methods .....	487
<i>Gammaropsella</i> <b>gen. nov.</b> .....	488
<i>Gammaropsella saepta</i> <b>sp. nov.</b> .....	488
<i>Kamaka</i> Derzhavin, 1923 .....	490
<i>Kamaka silvana</i> <b>sp. nov.</b> .....	490
References .....	493
Leucothoidae. By Kristine N. White & James Darwin Thomas .....	494
Abstract .....	494
Introduction .....	494
Material and Methods .....	495
<i>Anamixis</i> Stebbing, 1897 .....	495
<i>Anamixis bazimut</i> Thomas, 1997 .....	495
<i>Leucothoe</i> Leach, 1814 .....	498
<i>Leucothoe adelphe</i> <b>sp. nov.</b> .....	498
<i>Leucothoe bova</i> <b>sp. nov.</b> .....	501
<i>Leucothoe epidemos</i> <b>sp. nov.</b> .....	505
<i>Leucothoe eumilli</i> <b>sp. nov.</b> .....	508
<i>Leucothoe hipposideros</i> <b>sp. nov.</b> .....	511
<i>Leucothoe laevipalma</i> <b>sp. nov.</b> .....	515
<i>Leucothoe makrommatos</i> <b>sp. nov.</b> .....	518
<i>Leucothoe odontiskos</i> <b>sp. nov.</b> .....	521
<i>Leucothoe pollex</i> <b>sp. nov.</b> .....	525
<i>Leucothoe rudicula</i> <b>sp. nov.</b> .....	528
<i>Leucothoe serrata</i> <b>sp. nov.</b> .....	531
<i>Leucothoe sparsa</i> <b>sp. nov.</b> .....	535
<i>Leucothoe thula</i> <b>sp. nov.</b> .....	538
<i>Leucothoe undulata</i> <b>sp. nov.</b> .....	541
<i>Leucothoella</i> Schellenberg, 1928 .....	544
<i>Leucothoella gracilis</i> Haswell, 1879 .....	544
<i>Paranamixis</i> Schellenberg, 1928 .....	548
<i>Paranamixis jiigurru</i> <b>sp. nov.</b> .....	548
Unknown leucomorph .....	551
References .....	554

Liljeborgiidae. By Charles Oliver Coleman .....	556
Abstract.....	556
Introduction.....	556
Material and Methods .....	556
<i>Liljeborgia</i> Bate, 1862.....	557
<i>Liljeborgia joergpeteri</i> <b>sp. nov.</b> ....	557
References.....	560
Lysianassidae. By J.K. Lowry & H.E. Stoddart .....	561
Abstract.....	561
Introduction.....	561
Material and Methods .....	562
Lysianassinae	
<i>Azotostoma</i> J.L. Barnard, 1965 .....	562
<i>Azotostoma fusta</i> J.L. Barnard, 1965 .....	562
<i>Pseudambasia</i> Stephensen, 1927 .....	565
<i>Pseudambasia acuticaudata</i> (Ledoyer, 1984) .....	565
<i>Riwo</i> Lowry & Stoddart, 1995 .....	568
<i>Riwo mizeui</i> Lowry & Stoddart, 1995.....	568
<i>Shoemakerella</i> Pirlot, 1936.....	571
<i>Shoemakerella barnardi</i> <b>sp. nov.</b> .....	571
<i>Waldeckia</i> Chevreux, 1906 .....	575
<i>Waldeckia enoei</i> Stephensen, 1931 .....	575
Tryphosinae Lowry & Stoddart, 1997	
<i>Paralysianopsis</i> Schellenberg, 1931 .....	578
<i>Paralysianopsis padoz</i> Lowry & Stoddart, 1995 .....	578
<i>Tryphosella</i> Bonnier, 1893.....	581
<i>Tryphosella bet</i> <b>sp. nov.</b> .....	581
<i>Tryphosella cameloides</i> <b>sp. nov.</b> .....	584
<i>Tryphosella charlottae</i> <b>sp. nov.</b> .....	587
<i>Tryphosella flynnana</i> <b>sp. nov.</b> .....	590
<i>Tryphosella seasana</i> <b>sp. nov.</b> .....	593
References.....	596
Maeridae, the <i>Ceradocus</i> group. By Traudl Krapp-Schickel.....	598
Abstract.....	598
Introduction.....	598
Material and Methods .....	598
<i>Austromaera</i> Lowry & Springthorpe, 2005.....	599
<i>Austromaera brevicaudata</i> (Ledoyer, 1984) .....	599
<i>Ceradocus</i> Costa, 1853 .....	601
<i>Ceradocus crenatipalma</i> Ledoyer, 1979 .....	601
<i>Ceradocus hawaiiensis</i> J.L. Barnard, 1955 .....	603
<i>Ceradocus oxyodus</i> Berents, 1983.....	604
<i>Ceradocus</i> cf. <i>rubromaculatus</i> Stimpson, 1856 .....	607
<i>Ceradocus woorea</i> Berents, 1983.....	610
<i>Ceradocus yandala</i> Berents, 1983 .....	612
<i>Glossomaera</i> <b>gen. nov.</b> .....	614
<i>Glossomaera octodens</i> (Sivaprakasam, 1968).....	614
<i>Jerbarnia</i> Croker, 1971 .....	617
<i>Jerbarnia stocki</i> Thomas & Barnard, 1990 .....	617
<i>Linguimaera</i> Pirlot, 1936.....	620
<i>Linguimaera pirloti</i> Krapp-Schickel, 2003.....	620

<i>Maeropsis</i> Chevreux, 1919 .....	622
<i>Maeropsis cobia</i> <b>sp. nov.</b> .....	622
<i>Maeropsis griffini</i> (Berents, 1983) .....	625
<i>Quadrimaera</i> Krapp-Schickel & Ruffo, 2000 .....	627
<i>Quadrimaera pacifica</i> (Schellenberg, 1938) .....	627
<i>Quadrimaera quadrimana</i> (Dana, 1853) .....	629
<i>Quadrimaera</i> cf. <i>reishi</i> (J.L. Barnard, 1979) .....	631
<i>Quadrimaera serrata</i> (Schellenberg, 1938) .....	633
<i>Sauradocus</i> Yerman & Krapp-Schickel, 2008 .....	636
<i>Sauradocus hobbit</i> Yerman & Krapp-Schickel <b>sp. nov.</b> .....	636
<i>Sauradocus minimarenius</i> Yerman & Krapp-Schickel <b>sp. nov.</b> .....	638
References .....	641
Maeridae, the <i>Elasmopus</i> group. By J.K. Lowry & L.E. Hughes .....	643
Abstract .....	643
Introduction .....	643
Material and Methods .....	643
<i>Elasmopus</i> Costa, 1853 .....	645
<i>Elasmopus alalo</i> Myers, 1986 .....	646
<i>Elasmopus crenulatus</i> Berents, 1983 .....	649
<i>Elasmopus hooheno</i> J.L. Barnard, 1970 .....	652
<i>Elasmopus pecteniscus</i> (Bate, 1862) .....	656
<i>Elasmopus slatyeri</i> <b>sp. nov.</b> .....	659
<i>Elasmopus spinicarpus</i> Berents, 1983 .....	663
<i>Elasmopus varanocephalensis</i> <b>sp. nov.</b> .....	666
<i>Mallacoota</i> J.L. Barnard, 1972 .....	669
<i>Mallacoota balara</i> Berents, 1983 .....	669
<i>Mallacoota capricornia</i> <b>sp. nov.</b> .....	673
<i>Mallacoota chandaniae</i> Lowry & Springthorpe, 2005 .....	677
<i>Mallacoota nananui</i> Myers, 1985 .....	680
<i>Mallacoota schellenbergi</i> Ledoyer, 1984 .....	684
<i>Mallacoota scopulosa</i> <b>sp. nov.</b> .....	687
<i>Parelmopus</i> Stebbing, 1888 .....	690
<i>Parelmopus cymatilis</i> <b>sp. nov.</b> .....	691
<i>Parelmopus suensis</i> (Haswell, 1879b) .....	695
References .....	699
Maxillipiidae. By Charles Oliver Coleman .....	703
Abstract .....	703
Introduction .....	703
Material and Methods .....	703
<i>Maxillipius</i> Ledoyer, 1973 .....	704
<i>Maxillipius rectitelson</i> Ledoyer, 1973 .....	704
References .....	707
Megaluropidae. By L.E. Hughes .....	708
Abstract .....	708
Introduction .....	708
Material and Methods .....	708
<i>Gibberosus</i> Thomas & Barnard, 1986 .....	709
<i>Gibberosus udarus</i> <b>sp. nov.</b> .....	709
References .....	711
Melitidae, the <i>Eriopisella</i> group. By Michelle N. Yerman .....	713
Abstract .....	713

Introduction.....	713
Material and Methods .....	713
<i>Netamelita</i> J.L. Barnard, 1962 .....	714
<i>Netamelita lacerta</i> <b>sp. nov.</b> ....	714
References.....	717
Melitidae, the <i>Melita</i> group. By J.K. Lowry & R.T. Springthorpe .....	718
Abstract.....	718
Introduction.....	718
Material and Methods .....	720
<i>Dulichella</i> Stout, 1912 .....	720
<i>Dulichella pacifica</i> Lowry & Springthorpe, 2005.....	720
<i>Melita</i> Leach, 1814 .....	723
<i>Melita myersi</i> G. Karaman, 1987 .....	723
<i>Melita sampsonae</i> <b>sp. nov.</b> .....	726
<i>Tegano</i> Barnard & Karaman, 1982.....	730
<i>Tegano atkinsae</i> <b>sp. nov.</b> .....	730
References.....	734
Melphidippidae. By Charles Oliver Coleman .....	736
Abstract.....	736
Introduction.....	736
Material and Methods .....	736
<i>Melphisana</i> J.L. Barnard, 1962.....	737
<i>Melphisana madagascarensis</i> Ledoyer, 1984 .....	737
References.....	740
Ochlesidae. By Charles Oliver Coleman .....	741
Abstract.....	741
Introduction.....	741
Material and Methods .....	741
<i>Ochlesis</i> Stebbing, 1910 .....	742
<i>Ochlesis alii</i> J.L. Barnard, 1970 .....	742
References.....	745
Oedicerotidae. By L.E. Hughes & J.K. Lowry .....	746
Abstract.....	746
Introduction.....	746
Material and Methods .....	746
<i>Aborolobatea</i> Ledoyer, 1984 .....	747
<i>Aborolobatea insidiosa</i> <b>sp. nov.</b> .....	747
<i>Monoculodes</i> Stimpson, 1853 .....	750
<i>Monoculodes tropicalis</i> <b>sp. nov.</b> .....	750
<i>Periocolodes</i> Sars, 1895 .....	754
<i>Periocolodes talboti</i> <b>sp. nov.</b> .....	754
References.....	757
Paracalliopiidae. By L.E. Hughes .....	759
Abstract.....	759
Introduction.....	759
Material and Methods .....	759
<i>Doowia</i> Barnard & Drummond, 1987 .....	759
<i>Doowia dexterae</i> Barnard & Drummond, 1987 .....	759
<i>Yhi</i> Barnard & Thomas, 1991 .....	762
<i>Yhi yindi</i> Barnard & Thomas, 1991 .....	762
References.....	765

Phliantidae. By Charles Oliver Coleman .....	766
Abstract.....	766
Introduction.....	766
Material and Methods .....	766
<i>Pereionotus</i> Bate & Westwood, 1863 .....	766
<i>Pereionotus thomsoni</i> Stebbing, 1899 .....	766
References.....	770
Photidae. By Alan A. Myers .....	771
Abstract.....	771
Introduction.....	771
Material and Methods .....	771
<i>Gammaropsis</i> Liljeborg, 1855 .....	771
<i>Gammaropsis hephaestis</i> <b>sp. nov.</b> .....	771
<i>Graciliphotis</i> <b>gen. nov.</b> .....	774
<i>Graciliphotis ruthae</i> <b>sp. nov.</b> .....	774
<i>Latigammaropsis</i> <b>gen. nov.</b> .....	777
<i>Latigammaropsis athenae</i> <b>sp. nov.</b> .....	777
<i>Latigammaropsis dionysus</i> <b>sp. nov.</b> .....	780
<i>Latigammaropsis hermes</i> <b>sp. nov.</b> .....	783
<i>Latigammaropsis hestia</i> <b>sp. nov.</b> .....	785
<i>Photis</i> Krøyer, 1842.....	788
<i>Photis aina</i> J.L. Barnard, 1970 .....	788
<i>Photis davei</i> <b>sp. nov.</b> .....	790
<i>Photis pirloti</i> Myers, 1985 .....	793
<i>Virgammaropsis</i> <b>gen. nov.</b> .....	795
<i>Virgammaropsis artemis</i> <b>sp. nov.</b> .....	796
References.....	798
Phoxocephalidae. By Joanne Taylor .....	800
Abstract.....	800
Introduction.....	800
Material and Methods .....	801
<i>Birubius</i> Barnard & Drummond, 1976 .....	801
<i>Birubius banksi</i> <b>sp. nov.</b> .....	801
<i>Birubius batei</i> (Haswell, 1879).....	804
<i>Birubius casuarina</i> <b>sp. nov.</b> .....	807
<i>Birubius kingae</i> <b>sp. nov.</b> .....	810
<i>Birubius oti</i> <b>sp. nov.</b> .....	813
<i>Birubius parvus</i> <b>sp. nov.</b> .....	816
<i>Limnoporeia</i> Fearn-Wanan, 1968 .....	819
<i>Limnoporeia cooki</i> <b>sp. nov.</b> .....	819
<i>Limnoporeia woorake</i> Barnard & Drummond, 1978 .....	821
<i>Metaphoxus</i> Bonnier, 1896.....	824
<i>Metaphoxus varanas</i> <b>sp. nov.</b> .....	824
References.....	827
Platyischnopidae. By L.E. Hughes .....	828
Abstract.....	828
Introduction.....	828
Material and Methods .....	828
<i>Platyischnopus</i> Stebbing, 1888 .....	828
<i>Platyischnopus mam</i> Barnard & Drummond, 1979.....	828
<i>Tomituka</i> Barnard & Drummond, 1979 .....	832

<i>Tomituka eumilli</i> <b>sp. nov.</b> .....	832
References.....	835
Pleustidae. By Jean Just .....	836
Abstract.....	836
Introduction.....	836
Material and Methods .....	836
<i>Tepidopleustes</i> Karaman & Barnard, 1979.....	837
<i>Tepidopleustes acromatius</i> <b>sp. nov.</b> .....	837
References.....	840
Podoceridae. By Niamh M. Kilgallen .....	841
Abstract.....	841
Introduction.....	841
Material and Methods .....	841
<i>Podocerus</i> Leach, 1814 .....	842
<i>Podocerus brasiliensis</i> (Dana, 1853).....	842
<i>Podocerus casuarinensis</i> <b>sp. nov.</b> .....	844
<i>Podocerus chelonophilus</i> (Chevreux & de Guerne, 1888) .....	848
<i>Podocerus crenulatus</i> Myers, 1985 .....	850
<i>Podocerus laevis</i> (Haswell, 1885).....	853
<i>Podocerus talegus talegus</i> J.L. Barnard, 1965 .....	853
<i>Podocerus uncinatus</i> <b>sp. nov.</b> .....	856
References.....	859
Sebidae. By Michelle N. Yerman & Charles Oliver Coleman .....	861
Abstract.....	861
Introduction.....	861
Material and Methods .....	861
<i>Seba</i> Bate, 1862 .....	861
<i>Seba gruneri</i> <b>sp. nov.</b> .....	861
<i>Seba mariolgae</i> <b>sp. nov.</b> .....	865
<i>Seba zeumindi</i> <b>sp. nov.</b> .....	868
References.....	871
Stenothoidae. By Traudl Krapp-Schickel .....	872
Abstract.....	872
Introduction.....	872
Material and Methods .....	872
<i>Stenothoe</i> Dana, 1852 .....	873
<i>Stenothoe miersi</i> (Haswell, 1879).....	873
<i>Wallametopa</i> J.L. Barnard, 1974 .....	875
<i>Wallametopa cabon</i> J.L. Barnard, 1974 .....	875
References.....	878
Synopiidae. By L.E. Hughes .....	880
Abstract.....	880
Introduction.....	880
Material and Methods .....	880
<i>Synopia</i> Dana, 1852 .....	881
<i>Synopia ultramarina</i> Dana, 1853 .....	881
<i>Syrrhoe</i> Goës, 1866 .....	884
<i>Syrrhoe petitaserrata</i> <b>sp. nov.</b> .....	884
<i>Telsosynopia</i> G. Karaman, 1986.....	887
<i>Telsosynopia trifidilla</i> Hughes & Lowry, 2006.....	887
References.....	890

Talitridae. By Cristiana S. Serejo .....	892
Abstract.....	892
Introduction.....	892
Material and Methods .....	892
<i>Chelorchestia</i> Bousfield, 1984 .....	893
<i>Chelorchestia limicola</i> (Haswell, 1880).....	893
<i>Talorchestia</i> Dana, 1852 .....	896
<i>Talorchestia spinipalma</i> Dana, 1852 .....	897
<i>Talorchestia terraereginae</i> Haswell, 1880 .....	900
References.....	902
Unciolidae. By Alan A. Myers .....	904
Abstract.....	904
Introduction.....	904
Material and Methods .....	904
<i>Wombalano</i> Thomas & Barnard, 1991 .....	904
<i>Wombalano yerang</i> Thomas & Barnard, 1991 .....	904
References.....	907
Uristidae. By J.K. Lowry & H.E. Stoddart .....	908
Abstract.....	908
Introduction.....	908
Material and Methods .....	908
<i>Ichnopus</i> Costa 1853 .....	909
<i>Ichnopus capricornus</i> Lowry & Stoddart, 1992 .....	909
<i>Ichnopus tenuicornis</i> (Haswell, 1879).....	912
<i>Nagada</i> Lowry & Stoddart 1995 .....	915
<i>Nagada uwedoae</i> Lowry & Stoddart, 1995 .....	915
References.....	918
Urohaustoriidae. By Niamh M. Kilgallen .....	919
Abstract.....	919
Introduction.....	919
Material and Methods .....	919
<i>Tottungus</i> Barnard & Drummond, 1982.....	920
<i>Tottungus solivagus</i> <b>sp. nov.</b> .....	920
<i>Urohaustorius</i> Sheard, 1936.....	922
<i>Urohaustorius drummondiae</i> <b>sp. nov.</b> .....	922
References.....	926
Wandinidae. By J.K. Lowry & H.E. Stoddart .....	927
Abstract.....	927
Introduction.....	927
Material and Methods .....	927
<i>Wandin</i> Lowry & Stoddart, 1990.....	927
<i>Wandin griffini</i> Lowry & Stoddart, 1990 .....	927
References.....	930